STATE OF CALIFORNIA

ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION

In the matter of:) Docket: 06-OII-1	DOCKET
Developing Statewide Avian Guidelines) SCIENCE ADVISORY COMMITTEE	DATE JUL 1 2 2006
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The California Energy Commission, working with the California Department of Fish and Game and various interested stakeholders and members of the public, is developing statewide guidelines to help reduce the impacts of wind energy development on birds and bats. These voluntary guidelines will consider pre- and post-construction monitoring protocols and suggested mitigation strategies. The goal is to encourage the development of wind energy in the state while minimizing impacts to wildlife.

In our effort to ensure use of the best available science, the Renewables Committee has established a Science Advisory Committee (SAC). The role of the technical experts on the SAC is to assist in developing the guidelines, help respond to scientific inquiries from the public, and review drafts of the guidelines prepared by staff. Previously, we posted the criteria for the SAC as an attachment to the letters sent on April 13, 2006. These letters solicited recommendations for candidates with expertise in wildlife issues related to wind development, as well as knowledge of avian/bat biology, raptor ecology, biometrics, and study design.

The Renewables Committee has selected nine scientists who collectively can provide the expert advice that the Energy Commission needs to develop the guidelines. These scientists are widely recognized by their peers for technical expertise, have a strong record of publications or scientific leadership, and have demonstrated their ability to function well in a team with objectivity and professionalism.

The background of each member is summarized in Attachment A, which contains pertinent professional and academic credentials, and research interests. We look forward to working with the SAC and thank those of you who provided suggestions for candidates.

Dated: July 12, 2006

STATE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION

Commissioner and Presiding Member

Renewables Committee

Chairman and Associate Member

Renewables Committee

Enclosure

ATTACHMENT A

SUMMARY OF EXPERIENCE/EDUCATION

SCIENCE ADVISORY COMMITTEE MEMBERS

July 2006

Dick Anderson is a recognized authority on wind-energy/wildlife interactions in California, with 26 years of experience with the California Energy Commission permitting complex energy generation and transmission projects. He was lead researcher on Wind Energy/Bird research in Tehachapi and San Gorgonio Wind Resource Areas, and conducted the initial research conducted at the Altamont Pass Wind Resource Area. Mr. Anderson has chaired the California Interagency Wildlife Task Group and is past President of the Western Section of The Wildlife Society. He served as Chair of the National Wind Coordinating Committee's Avian Subcommittee (now Wildlife Workgroup) for six years, and is a co-author of Studying Wind Energy/Bird Interactions: A Guidance Document. He is currently conducting research on Swainson's hawks for the University of California, Davis Wildlife Health Center. Mr. Anderson received his B.S. in Biological Sciences at the University of California at Davis in 1976.

Peter Bloom has over 30 years of experience as a researcher and consulting wildlife biologist. He has particular expertise with raptor populations, including California condors, golden eagles, peregrine and prairie falcons, Swainson's hawks, burrowing owls, and many other special status birds of prey. Mr. Bloom has over 50 technical papers and publications on a diverse array of avian research projects. His field experience includes surveys for numerous threatened and endangered bird, reptile, and amphibian species. Mr. Bloom is the recipient of The Wildlife Society Western Section, 2005 Professional of the Year award. He received his B.S. in 1979 and M.S. in 1989, both in Zoology at California State University at Long Beach in 1979, and is a Ph.D candidate at the College of Natural Resources at the University of Idaho, Moscow.

Michael Green is the Landbird Conservation Coordinator in the Division of Migratory Birds and State Programs, U.S. Fish and Wildlife Service, in Portland, OR. Dr. Green is the national coordinator for Peregrine Falcon delisting monitoring, and is the FWS liaison to Partners in Flight across six western States. Dr. Green focuses on range-wide conservation of high priority birds such as tricolored blackbirds, assists refuges with monitoring issues, and coordinates with partners on minimizing the incidental mortality to birds caused by man-made structures such as wind turbines. Before 2000, Dr. Green worked as a wildlife biologist with USDA's Animal and Plant Health Inspection Service in Maryland. He received his Ph.D. in biology from University of North Carolina, Chapel Hill in 1991 and an AB in Biology from the University of California at Berkeley in 1985.

Bronwyn Hogan is an Environmental Scientist for the California Department of Fish and Game, Central Valley Bay-Delta Branch, and is currently contributing to and co-editor of the California Bat Conservation Strategy. She has participated in bat surveys and conducted bat research in California, Minnesota, Finland, and the Azores. Ms. Hogan has designed research projects and conducted studies that involved acoustic surveys, mist-netting, and radio-telemetry to assess bat foraging activities and roosting habitat. In 1997, she was awarded a Fulbright grant to study bats in Finland. She received her BS in Wildlife and Fisheries Biology at UC Davis in 1989, and her M.S. from California State University Sacramento in 2000.

Kenneth Pollock is a Professor of Zoology, Biomathematics and Statistics in the Department of Zoology at North Carolina State University. He has authored over 175 refereed papers, as well as numerous books and monographs, on sampling theory, survey methodology, statistical and population ecology, and statistical and mathematical modeling of wildlife and fisheries populations. Some of his awards include Best Paper and Monograph from the Wildlife Society, Best Publication in Biometrics, as well as the Distinguished Achievement Award from the American Statistical Association Section on Statistics and Environment. Dr. Pollock is a Fellow of the American Statistical Association. He received his B.Sc. Agriculture (Biometry), from the University of Sydney, New South Wales, Australia, in 1968, an M.S. (Biometry), from Cornell University in 1972, and a Ph.D. (Biometry) from Cornell University, 1974.

Bill Rainey is an Associate Specialist in the Department of Integrative Biology at the University of California, Berkeley, and conducts research on distribution, status, habitat associations, and ecology of bats. His recent work has focused on the role of bats in California riparian foodwebs, and on bat distribution and seasonal movements along elevation gradients in the Sierra Nevada. He is active in the development and evaluation of automated low power ultrasound recorders for long term monitoring of bat activity and identification of landscape patterns of habitat use and migration. He has been a Co-Principal Investigator or collaborator on a number of projects for the California Department of Fish and Game examining the distribution and conservation status of special concern bat species. Dr Rainey received his B.S. in Geology from Michigan State University in 1969, and his Ph.D. in Zoology from U.C. Berkeley in 1985.

James Sedinger is a professor at the Natural Resource and Environmental Science Department at the University of Nevada at Reno. His research interests involve the study of life-histories, population biology and nutritional ecology of avian species, including waterfowl. Dr. Sedinger has an extensive publication record in internationally respected scientific journals, with research support from the National Science Foundation, U.S. Department of Agriculture, and U.S. Department of the Interior. He was elected Fellow of the American Ornithologists' Union in 2003. He received his B.S. at the University of Washington in 1971, and his Ph.D. at the University of California at Davis in 1983.

Renewable Energy Laboratory (NREL), and has more than 30 years of research, development, engineering, and management experience in wind technology. As a professor at Oregon State University, he worked with the Department of Energy (DOE) to develop early wind technologies, was part of the early wind exploration and development of the wind program at NREL, and was appointed the founding director of the National Wind Technology Center in 1994. Dr. Thresher has been involved in the study of avian-wind power interactions since 1994 and has been active in the National Wind Coordinating Committee's Wildlife Work Group since its inception in 1994. The American Wind Energy Association gave him the Lifetime Achievement Award and recognized him as the Person of the Year in 1997. Dr. Thresher received his Ph.D. at Colorado State University in 1970, and his B.S. from Michigan Technological University in 1962.

Brian James Walton is Coordinator of the Santa Cruz Predatory Bird Research Group and a specialist with the University of California, Santa Cruz. He has been conducting research on California birds of prey since 1971, and works closely with state and federal resource agencies to craft strategies for the recovery of threatened, endangered and sensitive raptor species, including California condors, peregrine and prairie falcons, bald and golden eagles. Mr. Walton supervises region-wide field operations for threatened and endangered bird population management work. He has authored dozens of papers on raptor management techniques, statewide raptor surveys and monitoring, and population studies. He received his B.S. from California Polytechnic State University, San Luis Obispo in 1973, and his M.A. in Biological Sciences from San Jose State University in 1978.